

## **Methodic techniques of solving technical problems developing technical students' thinking**

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### **Abstract**

© 2015, Canadian Center of Science and Education. All rights reserved. The purpose of this article is to review some of the instructional techniques of solving technical problems developing technical thinking of students, which are based on the objective laws of the development of the properties of the modern school, focused on a student who is prone to technical activities. The article reveals the leading approaches (processual, cognitive-evaluative) to the concept of "technical thinking" as well as the content of the process of development of technical students' thinking at senior secondary schools, it is proved that the solution of technical problems is one of the most effective methods of developing technical students' thinking, it is justified that discussed methodic techniques of solving technical problems do not create obsessive, annoying algorithms requiring a lot of patience; they stimulate students' interest to these problems, encourage them to a wide search and cognitive activity. The system of such methods is based on the objective laws of mental development of student's personality prone to technical activities. In general, the results of experiments to solve technical problems show that, on the one hand, they stimulate the development of technical thinking of students, on the other, they increase general labor educatedness. The stuff of this article may be useful for teachers of technology, physics, mathematics, as well as at career development courses.

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### **Keywords**

Development, Solving, Technical competence, Technical problem, Technical thinking